

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/S79,749
Source: IFWP
Date Processed by STIC: 5-26-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFWP

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,749

TIME: 08:28:19

Input Set : A:\2117pct.ST25.txt

Output Set: N:\CRF4\05262006\J579749.raw

3 <110> APPLICANT: INSTITUT DE LA RECHERCHE POUR LE DEVELOPPEMENT (IRD)
 5 <120> TITLE OF INVENTION: NOUVEAUX MOYENS POUR LA PREVENTION DES LEISHMANIOSES
 7 <130> FILE REFERENCE: CP/BB 61158-2117
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/579,749
 C--> 10 <141> CURRENT FILING DATE: 2006-05-18
 12 <150> PRIOR APPLICATION NUMBER: FR 03 13 555
 13 <151> PRIOR FILING DATE: 2003-11-19
 15 <150> PRIOR APPLICATION NUMBER: FR 04 07 010
 16 <151> PRIOR FILING DATE: 2004-06-25
 18 <160> NUMBER OF SEQ ID NOS: 12
 20 <170> SOFTWARE: PatentIn version 3.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 2526
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Leishmania amazonensis
 27 <400> SEQUENCE: 1

28	gacccctggt	gcgaatggcg	cagtgcgtgc	gtcggtggt	gtggcgggcg	ccctcgccg	60
30	ctgtggtggc	gctgctgctg	tgcacgagca	gtgcaccggt	ggcgctgct	gcggggacga	120
32	gcgacttcac	tgaggcgag	cagacgaaca	cgctgacggt	gctgcaggcg	tttgcgctg	180
34	cgatccctgc	gcttggggac	acgtggacgg	gcagcgactt	ctgctcgtgg	aagcacatca	240
36	tctgcgactc	ccccggcgtc	ggcggtgtga	tggcgatgt	ggattatacc	ggcacgctgc	300
38	cggagatgcc	tgcgagcgtc	gactacaagg	acgtcatgat	cacggaactg	aacttcagcg	360
40	caatgggcca	ggggctgagc	gggacgctgc	ccccctcatg	gagctcgtg	acgtccttga	420
42	tatcactgtg	catcgaaaag	tctgagaagg	tcaccggcac	gctgacctgc	cagtggagct	480
44	cgatgacgtc	gctggacaac	cttaacctgc	acgacacggc	ggtctccggc	acgtgcctg	540
46	cccagtggag	ctcgatgaag	cagctgaccg	ttctggatct	ggagggcact	aaggtgtccg	600
48	gcacgtgcc	gtccgagtgg	agtgggatgg	cgaaggccga	ggccgtgcag	ctggagaact	660
50	gcggctctgtc	cgggagtctg	ccccctcgt	ggtctgcgat	gccgaagctg	cgtatcgtct	720
52	cactgagcgg	caaccacttc	tgcgggtgcg	tgcgcgactc	gtggaggag	aaggaccgcc	780
54	tcgatgtgac	catcgaggaa	tggcacatgg	gcgaggactg	caagcttgct	aacgcctgcc	840
56	gcccgaactgc	tgtccggga	acgaccacga	ctaaccgcc	caccaccacc	ggcaccag	900
58	cagcctctctc	tactccttct	ccagggtcgg	ggtgcgaggt	ggatgggtgt	gaggtgtgcg	960
60	agggggactc	cgtgcgcgg	tgcgccaggt	gccgtgagg	ctactcctg	acggacgaga	1020
62	agacgtgcct	ggcgaaccac	gatggcgggc	tggcgcggc	gtcgagcgga	gcggtggctg	1080
64	ccgtgctgt	gtggcggt	gtgctgtga	gcgtgggct	ggtggcgga	gggtgcggcg	1140
66	ggcacacgcg	cacgcgcaca	cgccgtcgtg	catcgctgt	gctttccgcc	gttgtggcg	1200
68	ctgcacggat	gcacgggcat	gcggaggcgt	gcctgcgtgt	gcgcgtgcc	gctcttgtgt	1260
70	gtctctccgt	gtggccagca	gtcgccaccc	gcgcgatcg	aatgtgcgcg	cggcgcggt	1320
72	gtgtgcctt	ggacagcgga	tgcgggcgc	cgcctcgc	cgtgtgccct	gcggtctgct	1380
74	gtgtgcgcgc	gcgagcgagc	tacggatgcg	ctgtccggcc	ctcttcgacg	gggtcgcctt	1440
76	gcggtgctgt	gctctcgtgg	tctgtgccgg	tgtgtccctg	gcggggtgag	agctggcggg	1500
78	ggcggtgggtg	cgcgcgcggc	agctctccgc	tgcgttgagg	gcggcctgcc	cctgcgtccg	1560
80	cgcaccgtcg	cgtctctctc	gacgccactg	cgcgcgcttg	ttggttgc	ttgctctgtc	1620

Does Not Comply
 Corrected Diskette Needed
 (pg.1)

pls do Not
 use foreign
 language
 in
 U.S.
 Applications.

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,749

TIME: 08:28:19

Input Set : A:\2117pct.ST25.txt

Output Set: N:\CRF4\05262006\J579749.raw

```

82 gtgcgcactc tctcttattt tccgtttcat tgcctgtat tctcttctcc caccgcactg 1680
84 cggcctcgtc accgcggccg tgcggtgcgc aggcgggtga tgtgccgttg tgccccccct 1740
86 ttcattggcg gctggggccga tcgccctctt gccctccctcc tccccctccc cctcccgcg 1800
88 gtcctgtcaa ttgtatatcc gtggacctta tcttcgtact gcctccgcgc ctcttccgta 1860
90 aagcttcggt ggcgtgtgcc gcccccgga cgtcagcgcc gctgtgctcg catgctcacg 1920
92 gtgcgtcccc gtgcgtgggc gtgcacgtaa ggacatgtat atatgtatgt gtatgtatat 1980
94 gagtatgtat atatgtacgg ttatatatag gaatttgtgt atgttgaggt gtatgcatgt 2040
96 gcgtgcgtat attagtgtgt gcgagcacgc gtgttgccgc acgctctgct gcccgcctcc 2100
98 gctgtgcgtg tcaactcgctg tgggcgcggt ggcgggtggc gccgggtggt ggccgtgcgg 2160
100 cgggcggggg ctctctgtg tttctctatt tctctgttcc ctgttgacct caaaaaaaaaa 2220
102 aaaaaaaaaa aaagtgcacg taaggacatg tatatatgta tgtgtatgta tatgagtatg 2280
104 tatatatgta cggttatata taggaatttg tgtatgttga ggtgtatgca tgtgcgtgcg 2340
106 tatattagtg tgtgcgagca cgcgtgttgc gccacgctct gctgcccgcc tccgctgtgc 2400
108 gtgtcactcg ctgtgggcgc ggtggcggtt ggcgcgggtt ggtggccgtg cggcgggcgg 2460
110 gggtcctct gtgtttctct atttctctgt tccctgttga cctcaaaaaa aaaaaaaaaa 2520
112 aaaaaa 2526
115 <210> SEQ ID NO: 2
116 <211> LENGTH: 1401
117 <212> TYPE: DNA
118 <213> ORGANISM: Leishmania amazonensis
120 <400> SEQUENCE: 2
121 cgtggacggg cagcgacttc tgctcgtgga agcacatcat ctgcgactcc cccggcgtcg 60
123 gcgtgtggat gggcgatgtg gattataccg gcacgctgcc ggagatgcct gcgagcgtcg 120
125 actacaagga cgtcatgac acggaactga acttcagcgc aatgggccag gggctgagcg 180
127 ggacgctgcc cccctcatgg agctcgtgta cgtccttgat atcactgtgc atcgaaaagt 240
129 ctgagaaggt caccggcacg ctgcctgcc agtggagctc gatgacgtcg ctggacaacc 300
131 ttaacctgca cgacacggcg gtctccggca cgtgcctgc ccagtggagc tcgatgaagc 360
133 agctgaccgt tctggatctg gagggcacta aggtgtccgg cacgctgccg tccgagtgga 420
135 gtgggatggc gaaggccgag gccgtgcagc tggagaactg cggctctgtc gggagtctgc 480
137 cccctcgtg gtctgcgatg ccgaagctgc gtatcgtctc actgagcggc aaccacttct 540
139 gcggtgtcgt gcccgactcg tggagggaga aggaccgct cgatgtgacc atcgaggaat 600
141 ggcacatggg cgaggactgc aagcttgcta acgctgccg cccgactgct gctccgggaa 660
143 cgaccacgac taaccgccc accaccaccg gcaccccagc agcctcctct actccttctc 720
145 cagggtcggg gtgcgaggtg gatgggtgtg aggtgtgcga gggggactcc gctgcgcggt 780
147 gcgccaggtg ccgtgagggc tactcctga cggacgagaa gacgtgcgtg gcgaaccacg 840
149 atggcggcgt ggcggcggcg tcgagcggag cgggtggctgc cgtgctgtg tgggcggctg 900
151 tgctgttgag cgtggggctg gtggcgtgag ggtgcggcgg gccctcttc tctgtggtgc 960
153 ccctggtgcc tgccctcgcc cccggcacgg cgtcgtcgt gccctctctc acccccacca 1020
155 gccgacggg agaccgacag ccacacgcgc acgcgcacac gccgtcgtgc atcgcgtgtg 1080
157 cgtgcactta aggacatgta tatatgtatg tgtatgtata tgagtatgta tatatgtccg 1140
159 gttatatata ggaatttgtg tatgttgagg tgtatgcatg tgcgtgcgta tattagtctg 1200
161 tgcgagcacg cgtgttgccg cacgctttgc tgcccgcctc cgtgtgtcgt gtccctccct 1260
163 gtgggcgcgc tgccgggtgg ccccggttgg tgcccgctgc gcgggcgggg gctcctctgt 1320
165 gtttctctat ttctctgttc cctgttgacc caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
167 aaaaaaaaaa aaaaaaaaaa a 1401
170 <210> SEQ ID NO: 3
171 <211> LENGTH: 1684
172 <212> TYPE: DNA
173 <213> ORGANISM: Leishmania amazonensis

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,749

TIME: 08:28:19

Input Set : A:\2117pct.ST25.txt

Output Set: N:\CRF4\05262006\J579749.raw

175 <400> SEQUENCE: 3

```

176 ggacgggagcg cgacttctgc tcgtggaagc acatcatctg cgactccccc ggcgtcggcg      60
178 tgtggatggg cgatgtggat tataccggca cgctgccgga gatgcctgcg agcgtcgact      120
180 acaaggacgt catgatcatg gactggact tcggcgcaat gggccaggga ctgagcggga      180
182 cgctgcccc ctcattggagc tcgtgacgt ccttgatgtc actgtggatc gaaaagtctg      240
184 agaaggtcac cggcacgctg cctaccagc ggagctcgat gaagcagctg acccttctgc      300
186 atctgaaggg cactaagggtg tccggcacgc tgcgcgccga gtggagtggg atgacgtcgc      360
188 tggacgacct taacctgcac gacacggcgg tctccggcac gctgcctgcc cagtggagct      420
190 cgatgaagca gctgatcgat ctggatctgg agggcactaa ggtgtccggc acgctgccgc      480
192 ccgagtggag tgggatggcg aaggccgagg cctgcagct gaagtactgc gatctgtccg      540
194 ggagtctgcc cccctcgtgg tcttcgatgc agaagctgcg tatcgtctca ctgagcggca      600
196 accacttctg cgggtgcgtg cccgactcgt ggaggagaaa ggaccgcctc gatgtgacca      660
198 tcgaggaatg gcacatgggc gaggactgca agcttgctaa cgcctgccgc ccgactgctg      720
200 ctccgggaac gaccacgact aaccgccca ccaccaccg caccacagca gcctcctcta      780
202 ctcccttctc agggtcgggg tgcgaggtgg atgggtgtga ggtgtgcgag ggggactccg      840
204 ctgcgcggtg cgccagggtg cgtgagggct actccctgac ggacgagaag acgtgcctgg      900
206 cgaaccacga tggcggcgtg gcgccggcgt cgagcggagc ggtggctgcg gctgctgtgt      960
208 gggcggctgt gctgttgagc gtggggctgg tggcgtgagg gtgcggcggc cccctcttct      1020
210 ctgtggtgcc cctggtgcct gccctcgccc ccagcacggc gtcgtcgtct cctctcacc      1080
212 cccaccagcc gaaggggaga ccgacagcca cagcacacg cgcacgcgcc gtcgtgcac      1140
214 gcgtgtgctt tccgcggtt tggcgctgc gcgatgcac gggcatgcgg aggcgtgcat      1200
216 gcgtgtgcgc gtgccagctc ttgtgtgtct ctccgtgtgg ccagcagtcg gcaccgcgc      1260
218 cgatcgaatg tgcgcgcggc ggcggtgtgt cgccttgga agcgatgcg gcgcgcgc      1320
220 ctgcgcgtgt gccctgcggt ctgctgtgct gccgcgcgag cgacgtacgg agtgcatgta      1380
222 aggacatgta tatatgtatg ttaggtata tgagtatgta tatatgtacg gttatatata      1440
224 ggaatttctg tatgttgagg tgtatgcatt tgcgtgcgta tattagtctg tgcgagcacg      1500
226 cgtgttgccg cacgctttgc tgcgcgcctc tgcgtgcgt gtcactccct gtgggcgcgc      1560
228 tggcgggtgg cgccgggtgg tggcgtgcg gcgggcgggg gctcctctgt gtttctctat      1620
230 ttctctgttc cctgttgacc tcaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      1680
232 aaaa                                             1684

```

235 <210> SEQ ID NO: 4

236 <211> LENGTH: 1404

237 <212> TYPE: DNA

238 <213> ORGANISM: Leishmania amazonensis

240 <400> SEQUENCE: 4

```

241 tcggcgtgtg gatgggagat gtggattata ccggcacgct gccggagatg cctgcgagcg      60
243 tcgactacaa ggacgtcatg atcacggaac tgaacttcgg cgcaatgggc cagggactga      120
245 gcgggacgct gccccctca tggagctcga tgaagcagct gatcgatctg gatctggagg      180
247 gactaagggt gtccggcacg ctgcgcgcgc agtggagtgg gatggcgaag gccgaggccc      240
249 tgcagctgaa gtactgcgat ctgtccggga gtctgcccc ctcgtggtct tcgatgcaga      300
251 agctgcgtat cgtctcactg agcggcaacc acttctgcgg gtgcgtgccg gactcgtgga      360
253 gggagaagga ccgctcgat gtgaccatcg aggaatggca catgggcgag gactgcaagc      420
255 ttgctaacgc ctgcgcgcgc actgctgctc cgggaacgac cagactaac ccgccacca      480
257 ccaccggcac ccagcagcc tctctactc cttctccagg gtccgggtgc gaggtggatg      540
259 ggtgtgaggt gtgcgagggg gactccgctg cgcggtgcgc caggtgccgt gagggctact      600
261 ccctgacgga cgagaagacg tgccctggcg accacgatgg cggcgtggcg gcggcgtcaa      660
263 gcggagcggg ggctgcggct gctgtgtggg cggctgtgct gttgagcgtg gggctggtgg      720
265 cgtgaggggt cgccggggcc ctcttctctg tgggtgccct ggtgcctgcc ctgcgcccg      780
267 gcacggcgct gtcgtgccc tctctcacc ccaccagccg acggggagac cgacagccac      840

```

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,749

TIME: 08:28:19

Input Set : A:\2117pct.ST25.txt

Output Set: N:\CRF4\05262006\J579749.raw

```

269 acgcgcacgc gcacacgccg tcgtgcatcg cgtgtgcttt ccgccgttgt ggcgcctgca      900
271 cggatgcacg ggcattgcga ggctgcatg cgtgtgcgcg tgccagctct tgtgtgtctc      960
273 tccgtgtggc cagcagtcgg caccgcgcg gatcgaatgt gcgcgcggcg gcggtgtgtc     1020
275 gccttggaac gcggatgctg gcgcccgcg ctcgcgtgtg cctcggctctg cgtgtcgtgg     1080
277 ccgcgcgagc gacgtacgga gtgcgctgtg tgcacttaag gacatgtata tatgtatgtg     1140
279 tatgtatatg agtatgtata tatgtacggg tatatatagg aatttgtgta tgttgagggtg     1200
281 tatgcatgtg cgtgcgtata ttagtctgtg cgagcacgcg tgttgcgcca cgctttgctg     1260
283 ccgcctccg ctgtgggtgt cactcgtgtg gggcccggtg gcgggtggcc ccgggtgggtg     1320
285 ccggttcggc gggcgggggc tcctctgtgt ttctctatct ctctgttccc tgttgccctc     1380
287 caaaaaaaaa aaaaaaaaaa aaaa                                     1404

```

290 <210> SEQ ID NO: 5

291 <211> LENGTH: 1501

292 <212> TYPE: DNA

293 <213> ORGANISM: Leishmania amazonensis

295 <400> SEQUENCE: 5

```

296 ccggcgtcgg cgtgtggatg ggcatgtgtg attataccgg cacgctgccg gagatgcctg      60
298 cgagcgtcga ctacaaggac gtcattgatc cggaaactga cttcagcgca atgggccagg     120
300 ggctgagcgg gacgctgccc cctcatgga gctcgtgac gtccttgata tcatgtgtca     180
302 tcgaaaagtc tgagaaggtc accggcacgc tgcctgcccc gtggagctcg atgacgtcgc     240
304 tggacaacct taactgcac gacacggcgg tctccggcac gctgcggccc gactggagtg     300
306 ggatgacgtc tcaggacgac cttaacctgc acgacacggc ggtctccggc acgctgcctg     360
308 ccagtgaggc ctcatgaag cagctgatcg atctggatct ggagggcact aagggtgtccg     420
310 gcacgctgcc gcccgagtgg agtgggatgg cgaaggccga ggccctgcag ctgaagtact     480
312 gcgatctgtc cgggagctct ccccccctgt ggtcttcgat gcagaagctg cgtatcgtct     540
314 cactgagcgg caaccacttc tgcgggtgcg tgcccgaact gtggagggag aaggaccgcc     600
316 tcgatgtgac catcgaggaa tggcacatgg gcgaggactg caagcttgct aacgcctgcc     660
318 gcccgaactg tgctccggga acgaccacga ctaaccgcgc caccaccacc ggcacccag     720
320 cagcctcctc tactccttct ccagggtcgg ggtgcgaggt ggatgggtgt gaggtgtgctg     780
322 aggggggact cgctgcgcgg tgccgccagg gccgtgaggg ctactccctg acggacgaga     840
324 agacgtgcct ggcaaccac gatggcggcg tggcggcggc gtcaagcgga gcggtggctg     900
326 cggtgtgtgt gtgggcggct gtgctgttga gcgtggggct ggtggcgtga ggggtgccgc     960
328 gccccctctt ctctgtgggt cccctgggtg ctgccctcgc cccagcacg gggctcgtcg     1020
330 tgccctctca cccccaccag ccgaagggga gaccgacagc cacacgcaca cgcgcacgcg     1080
332 ccgtcgtgca tcgctgtgct tttccgcgct tgtggcgctt gcgcggatgc acgggcatgc     1140
334 ggaggcgtgc atgcgtgtgc gcgtgccaac tcttgtgtgt ctctccgtgt ggccagcagt     1200
336 cggcaccctg gcacgtaagg acatgtatat atgtatgtgt aggtatatga gtatgtatat     1260
338 atgtacgggt atatatagga atttgtgtat gttgaggtgt atgcatgtgc gtgcgtatat     1320
340 tagtctgtgc gagcacgcgt gttgcgccac gctctgctgc ccgcctctgc tgtgcgtgtc     1380
342 actcgtgtgt ggcgcgctgg cgggtggcgc cgggtgggtg ccgtgcggcg ggcgggggct     1440
344 cctctgtgtt tctctatttc tctgttccct gttgacctca agaaaaaaaa aaaaaaaaaa     1500
346 a                                                                1501

```

349 <210> SEQ ID NO: 6

350 <211> LENGTH: 371

351 <212> TYPE: PRT

352 <213> ORGANISM: Leishmania amazonensis

354 <400> SEQUENCE: 6

356 Met Ala Gln Cys Val Arg Arg Leu Val Leu Ala Ala Pro Leu Ala Ala

357 1 5 10 15

360 Val Val Ala Leu Leu Leu Cys Thr Ser Ser Ala Pro Val Ala Arg Ala

RAW SEQUENCE LISTING

DATE: 05/26/2006

PATENT APPLICATION: US/10/579,749

TIME: 08:28:19

Input Set : A:\2117pct.ST25.txt

Output Set: N:\CRF4\05262006\J579749.raw

```

361          20          25          30
364 Ala Gly Thr Ser Asp Phe Thr Glu Ala Gln Gln Thr Asn Thr Leu Thr
365          35          40          45
368 Val Leu Gln Ala Phe Ala Arg Ala Ile Pro Ala Leu Gly Asp Thr Trp
369          50          55          60
372 Thr Gly Ser Asp Phe Cys Ser Trp Lys His Ile Ile Cys Asp Ser Pro
373 65          70          75          80
376 Gly Val Gly Val Trp Met Gly Asp Val Asp Tyr Thr Gly Thr Leu Pro
377          85          90          95
380 Glu Met Pro Ala Ser Val Asp Tyr Lys Asp Val Met Ile Thr Glu Leu
381          100         105         110
384 Asn Phe Ser Ala Met Gly Gln Gly Leu Ser Gly Thr Leu Pro Pro Ser
385          115         120         125
388 Trp Ser Ser Leu Thr Ser Leu Ile Ser Leu Cys Ile Glu Lys Ser Glu
389          130         135         140
392 Lys Val Thr Gly Thr Leu Pro Ala Gln Trp Ser Ser Met Thr Ser Leu
393 145         150         155         160
396 Asp Asn Leu Asn Leu His Asp Thr Ala Val Ser Gly Thr Leu Pro Ala
397          165         170         175
400 Gln Trp Ser Ser Met Lys Gln Leu Thr Val Leu Asp Leu Glu Gly Thr
401          180         185         190
404 Lys Val Ser Gly Thr Leu Pro Ser Glu Trp Ser Gly Met Ala Lys Ala
405          195         200         205
408 Glu Ala Val Gln Leu Glu Asn Cys Gly Leu Ser Gly Ser Leu Pro Pro
409          210         215         220
412 Ser Trp Ser Ala Met Pro Lys Leu Arg Ile Val Ser Leu Ser Gly Asn
413 225         230         235         240
416 His Phe Cys Gly Cys Val Pro Asp Ser Trp Arg Glu Lys Asp Arg Leu
417          245         250         255
420 Asp Val Thr Ile Glu Glu Trp His Met Gly Glu Asp Cys Lys Leu Ala
421          260         265         270
424 Asn Ala Cys Arg Pro Thr Ala Ala Pro Gly Thr Thr Thr Thr Asn Pro
425          275         280         285
428 Pro Thr Thr Thr Gly Thr Pro Ala Ala Ser Ser Thr Pro Ser Pro Gly
429          290         295         300
432 Ser Gly Cys Glu Val Asp Gly Cys Glu Val Cys Glu Gly Asp Ser Ala
433 305         310         315         320
436 Ala Arg Cys Ala Arg Cys Arg Glu Gly Tyr Ser Leu Thr Asp Glu Lys
437          325         330         335
440 Thr Cys Leu Ala Asn His Asp Gly Gly Val Ala Ala Ala Ser Ser Gly
441          340         345         350
444 Ala Val Ala Ala Ala Ala Val Trp Ala Ala Val Leu Leu Ser Val Gly
445          355         360         365
448 Leu Val Ala
449          370
452 <210> SEQ ID NO: 7
453 <211> LENGTH: 286
454 <212> TYPE: PRT
455 <213> ORGANISM: Leishmania amazonensis

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/579,749

DATE: 05/26/2006

TIME: 08:28:21

Input Set : A:\2117pct.ST25.txt

Output Set: N:\CRF4\05262006\J579749.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date